CITIZEN®

CHECK & CORRECT CALCULATOR

CITIZEN®

CCC-112

Instruction Manual
Manual de Instrucciones
Livro de Especificacoes
Anweisungshandbuch
Manuel d'instructions
Istruzioni all'Uso
Gebruiksaanwijzing
Manual
Инструкция по зксплуатции
Instrnkcja Obsługi
دليل الإرشادات
Peraturan pemakaian
指导说明书

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CCC-112

The unit complies with the requirements of Directive 89 / 336 / EEC as amended by 93 / 68 / EEC

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CE

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POWER SUPPLY

CITIZEN model CCC-112 is a dual-powered (high power solar + back-up battery) calculator operative under any lighting conditions.

-Auto power-off function-

The calculator switches the power off automatically if there has been no key entry for about 8 minutes.

-Battery change-

Remove the screw and the battery cover. Install a new battery with the + symbol facing upward. Replace the battery cover and secure the screw. When you finish, please press [AC] key.

KEY INDEX

[ON/C] : Power on / Clear key

[CE] : Clear entry key

[AC] : All clear key

[➔] : Shift-back key

[+/–] : ±Sign change key

[$\sqrt{\ }$] : Square root key

[GT] : Grand total key

[M+] : Memory plus key

[M–] : Memory minus key

[MRC] : Memory recall key / Memory clear key

[IN➤] : Insert key

[CORRECT] : Correction key

[AUTO REPLAY] : Automatic replay key

[▲ CHECK] [CHECK ▼] : Review key

[STORE ⛁] : Convert the displayed value from local currency to universal currency / To store exchange rate when pressing [SET] and [STORE ⛁] keys

[RECALL LOCAL] : Convert the displayed value from universal currency to local currency / To recall exchange rate when pressing [SET] and [RECALL LOCAL] keys

[STORE +TAX] : Price with tax key / To store tax rate when pressing [SET] and [+TAX] keys

[RECALL –TAX] : Price without tax key / To recall tax rate when pressing [SET] and [-TAX] keys

[SET] : Exchange rate setting key / Tax rate setting key

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[SELL] [MAR] [COST] :
Used for calculating the cost, selling price and profit margin amount. Enter the value of any 2 items to obtain the balance item.

Decimal point selection switch

– **F** – :	Floating decimal mode
– **0** –**2** – **3** – :	Fixed decimal mode
– **A** –:	ADD Mode -- Addition and subtraction calculations are preformed with an automatic 2-digit decimal so that decimal point entry is not required.

Round-up / Round-off / Round-down switch

THE SIGNS OF THE DISPLAY MEAN THE FOLLOWING:

GT : Grand Memory Loaded	M : Memory Loaded
– : Minus (or negative)	R : Memory recall
REP : Replay mode	ER : Overflow-error
CRT : Correction mode	ANS : Answer
IN➤ : Insert mode	188 : Item counter (Max : 100)
COST : Cost	SELL : Selling price
MARGIN% : Margin percentage	MARGIN : Margin (Selling price–Cost)
SET : Exchange rate or Tax rate setting	
TAX% : Tax rate stored	TAX : Amount of tax
-TAX : Price excluding tax	+TAX : Price including tax
LOCAL : Local currency	: Universal currency

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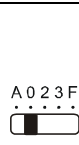
1. Calculation Examples

Before performing each calculation, press the [ON/C] key.

Example	Mode selection	Key operation	Display
1 x 2 x 3 = 6		[ON/C] 1 [x] 2 [x] 3 [=] [ON/C]	0. GT 6. GT 0.
8 – 3 = 5 7 x 9 = 63		8 [+] [–] 3 [=] 7 [÷] [x] 9 [=]	GT 5. GT 63.
2 x 3 = 6		2 [x] 2 [CE] 3 [=]	GT 6.
2 + 4 + 6 = 12		2 [+] 3 [+] 6 [ON/C] 2 [+] 4 [+] 6 [=]	0. GT 12.

1234 x 100 = 123,400		12345 [➔] [x] 100 [=]	12’345. 1’234. GT 123’400.

$14.90 + $0.35 – $1.45 + $12.05 = $25.85		1490 [+] 35 [–] 145 [+] 1205 [=]	GT 25.85

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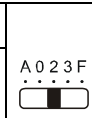
5 x 3÷0.2 = 75		5 [x] 3 [÷] 0.2 [=]	GT 75.
8÷4 x 3.7+9=16.4		8 [÷] 4 [x] 3.7 [+] 9 [=]	GT 16.4

300 x 27% = 81		300 [x] 27 [%]	GT 81.00
$\frac{11.2}{56}$ x 100% = 20%		11.2 [÷] 56 [%]	GT 20.00
300+(300x40%) =420		300 [+] 40 [%]	GT 420.00
300–(300x40%) =180		300 [–] 40 [%]	GT 180.00

5^4 = 625		5 [x] [=] [=] [=]	GT 625.00
1 / 2 = 0.5		2 [÷] [=]	GT 0.50
$\frac{1}{(2 \times 5 - 2)}$ = 0.125		2 [x] 5 [–] 2 [÷] [=]	GT 0.12
$\sqrt{144}$ = 12		144 [√]	12.00

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(–6) + 4 + 7.5 = 5.5		6 [+/–] [+] 4 [+] 7.5 [=]	GT 5.5
3 – 6 – 4 = –7		3 [–] 6 [–] 4 [=]	GT –7.

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2. Memory Calculation

(12 x 4) – (20 ÷ 2) = 38		[ON/C]	0.
		12 [x] 4 [M+]	M 48.
		20 [÷] 2 [M–]	M 10.
		[MRC]	M 38.
		[MRC] [ON/C]	0.
15 x 2 = 30 20 x 3 = 60 25 x 4 = 100 (total A = 190) 150 ÷ 5 = 30 40 x 3 = 120 (total B = 150) A – B = 40		15 [x] 2 [M+]	M 30.
		20 [x] 3 [M+]	M 60.
		25 [x] 4 [M+]	M 100.
		150 [÷] 5 [M–]	M 30.
		40 [x] 3 [M–]	M 120.
		[MRC]	M R 40.
		[MRC] [ON/C]	0.

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3. Constant Calculation

3 x 4 = 12 3 x 6 = 18		3 [x] 4 [=]	GT 12.
		6 [=]	GT 18.
12 ÷ 4 = 3 24 ÷ 4 = 6		12 [÷] 4 [=]	GT 3.
		24 [=]	GT 6.
2 + 3 = 5 4 + 3 = 7		2 [+] 3 [=]	GT 5.
		4 [=]	GT 7.
3 – 2 = 1 2 – 2 = 0		3 [–] 2 [=]	GT 1.
		2 [=]	GT 0.

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4. Overflow Error Clear

123456789012 x 100 = 123456789000	1234567890123 [➜] [x] 100 [=] [ON/C]	123'456'789'012. E 123'456'789'012. 12.3456789012 E 0.

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5. GT-Memory

Pressing [GT] twice before you operate GT function.

20 + 10 = 30		[ON/C] 20 [+] 10 [=]	GT 30.
45 – 25 = 20		45 [–] 25 [=]	GT 20.
50 x 3 = 150		50 [x] 3 [=]	GT 150.
total = 200		[GT]	GT 200.
200 x 15% = 30	A 0 2 3 F	[x] 15 [%]	GT 30.
200+(200x15%) = 230		[GT]	GT 230.
		[GT]	230.
		[ON/C]	0.

● All calculation results are automatically accumulated in GT.

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6. Correct Mode

Change 1 + 5 – 3 = 3 from 1 + 2 + 3 = 6	A 0 2 3 F • • • • •	1 [+] 2 [+] 3 [=]	04 GT 6. =
		[AUTO REPLAY]	01▼ REP GT 1. +
			02▼ REP GT 2. +
			03▼ REP GT 3. =
			04▼ REP GT 6. ANS
		[▲ CHECK] [▲ CHECK]	02▼ REP GT 2. +
		[CORRECT] 5 [–]	02 CRT REP GT 5. –
		[CORRECT]	02▲ REP GT 5. –
		[CHECK ▼]	03▼ REP GT 3. =
		[CHECK ▼]	04▼ REP GT 3. ANS

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		[AUTO REPLAY]	01▼ REP 1. + • • • 04▼ REP GT 3. ANS

• CORRECT mode is not available in MEMORY([M+], [M–]) calculations.

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7. INSERT MODE

Change 2 x 8 – 2 + 3 + 4 = 21 from 1 + 2 + 3 + 4 = 10		1 [+] 2 [+] 3 [+] 4 [=]	05 GT 10. =
		[AUTO REPLAY]	01▼ REP GT 1. +
			02▼ REP GT 2. +
			03▼ REP GT 3. +
			04▼ REP GT 4. =
			05▼ REP GT 10. ANS
		[CHECK▲][CHECK▲] [CHECK▲][CHECK▲]	01 REP GT 1. +
		[CORRECT] 2 [x]	01 CRT REP GT 2. x
		[CORRECT]	01 REP GT 2. x
		[CHECK▼]	02▼ REP GT 2. +
		[CORRECT] [IN➤]	02▼ CRT REP IN➤ GT ≥0. +≤

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		8 [–]	02 CRT REP IN ≥8. −≤
		[CORRECT]	02▼ REP GT 8. –
		[CHECK▼] [CHECK▼][CHECK▼]	05▼ REP GT 4. =
		[CHECK▼]	06▼ REP GT 21. ANS
		[AUTO REPLAY]	01▼ REP 2. x
			• • •
			06▼ REP GT 21. ANS

• INSERT mode is not available in MEMORY ([M+], [M–]) calculations.

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8. Tax Calculation

150+TAX(3%) =154.5 Tax sum = 4.5 Tax inclusive value = 154.5		3 [SET]	SET 3.00
		[STORE +TAX]	% 3.00
		150 [STORE +TAX]	+TAX 154.50
		[STORE +TAX]	TAX 4.50
206–TAX(3%) =200 Tax sum = 6 Tax exclusive value = 200		[ON/C] [SET] [RECALL –TAX]	% 3.00
		206 [RECALL –TAX]	–TAX 200
		[RECALL –TAX]	TAX 6.00

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9. Currency Exchange

EURO : USD : = 1 : 1.2140	A 0 2 3 F	[SET] 1.2140	SET ≥1.2140 ≤
		[STORE]	SET 1.2140
EURO 10 = USD 12.14		10 [RECALL LOCAL]	LOCAL 12.14
		[STORE]	⊜ 10.
EURO : USD : = 1 : 1.2140		[SET] [RECALL LOCAL]	⊜ SET 1.2140
USD 25 = EURO 20.59		25 [STORE]	⊜ 20.59
		[RECALL LOCAL]	LOCAL 25.

∗ It is not allowed to set the rate = 0

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10. Cost-Sell-Margin Calculation

Selling price： $1,000 Profit margin： 20% → Cost = 800		1000 [SELL]	SELL 1000.
		20 [MARGIN]	COST 800.
Cost： 100 Selling price： $125 → Profit margin =20% → Selling price - Cost = 25		100 [COST]	COST 100.
		125 [SELL]	MARGIN% 20.
		[MARGIN]	MARGIN 25.

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